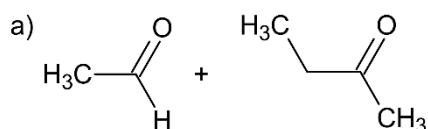
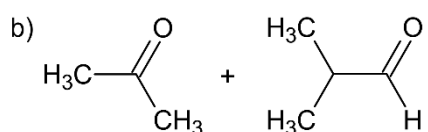


Zadanie 15.1



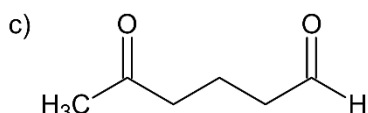
etanal

butanon

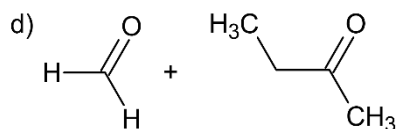


propanon

2-metylopropanal



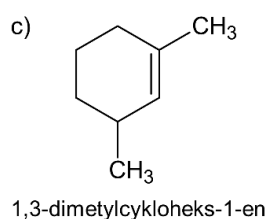
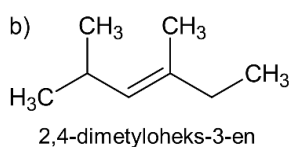
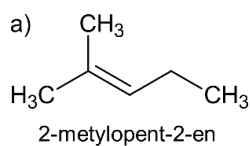
5-oksoheksanal



metanal

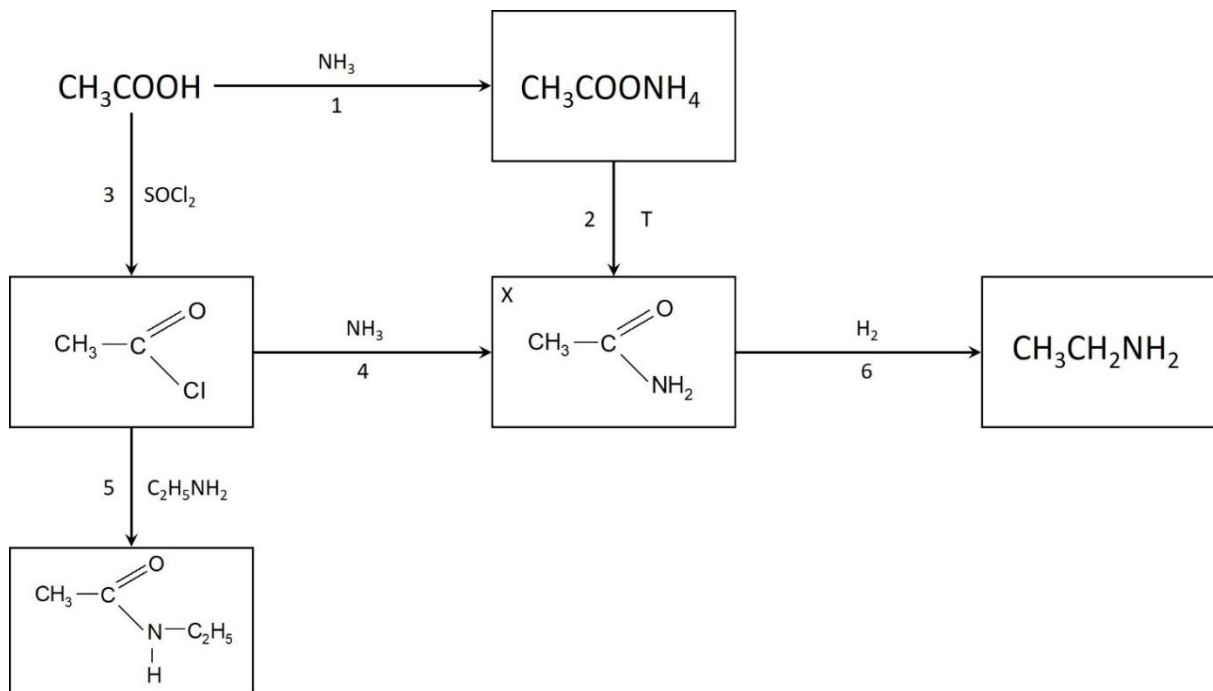
butanon

Zadanie 15.2



Zadanie 16

Schemat do zadania:

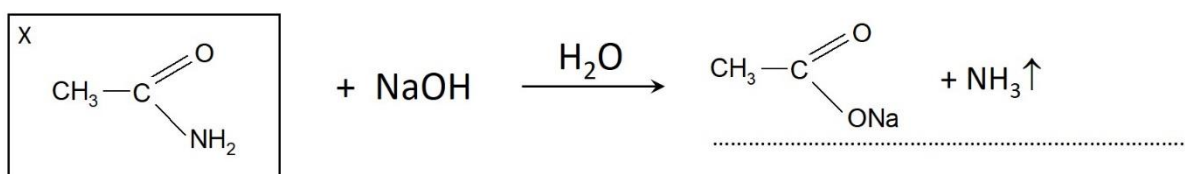
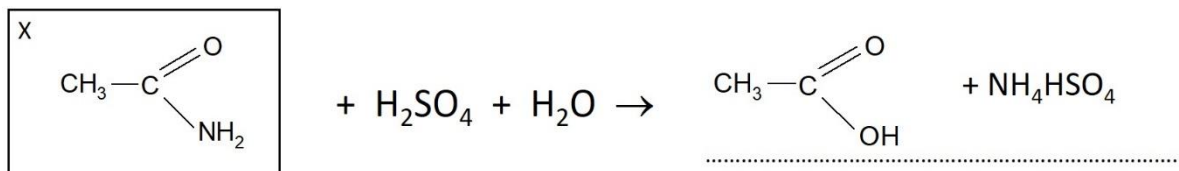


Zadanie 16.2

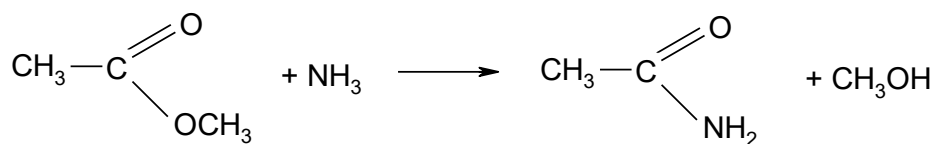
a)

nazwa związku	grupa związków	grupa funkcyjna	
		nazwa	wzór
<i>acetamid</i> (<i>etanoamid</i>)	<i>amidy</i>	<i>grupa amidowa</i>	$\text{—C}(=\text{O})\text{NH}_2$

b)

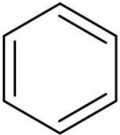
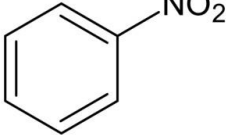
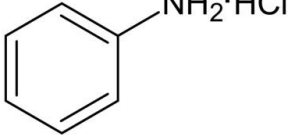
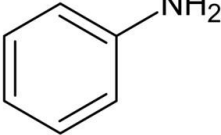


Zadanie 16.3



2.2 dm³

Zadanie 17.1

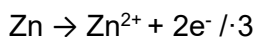
A	B	D	Y	E
CH ₃ CHO	CH ₃ COOH	CH ₃ CH ₂ OH	(CH ₃ COO) ₂ Ca	CH ₃ COOCH ₂ CH ₃
etanal	kwas etanowy	etanol	etanian wapnia	etanian etylu
F	G	H	X	
				
benzen	nitorbenzen	chlorowodorek aniliny	fenyloamina	

Zadanie 17.2

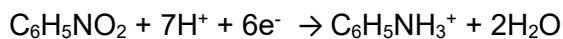
Równanie sumaryczne:



Proces utleniania:



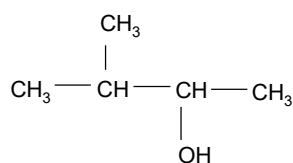
Proces redukcji:

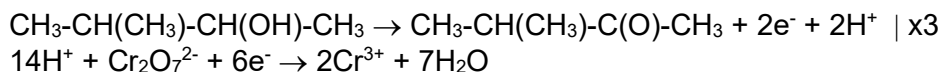
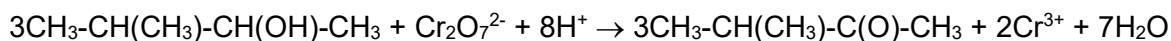


Zadanie 18

- a. (aldehyd / keton)
 (żółtego / pomarańczowego)

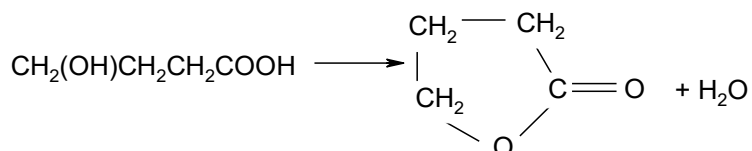
b.



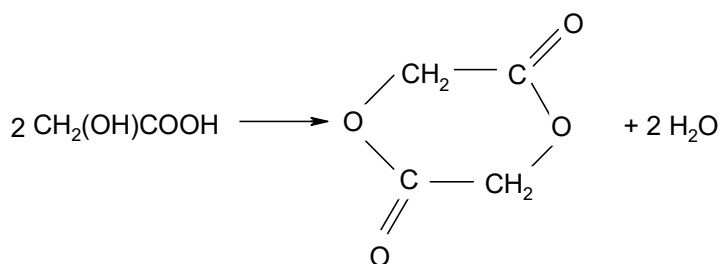


Zadanie 19

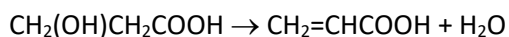
A.



B.



C.



Zadanie 20

A-2

B-3

C-1

Zadanie 21

kwas propanowy $\text{CH}_3\text{-CH}_2\text{-COOH}$

etanol $\text{CH}_3\text{-CH}_2\text{-OH}$

propanian etylu

reakcja estryfikacji